SONY

3-798-791-11(1)

English

Français

Deutsch

Español

Italiano

Video Cassette Recorder

Operating Instructions
Mode d'emploi
Bedienungsanleitung
Manual de instrucciones
Istruzioni per l'uso

SVO-1500P

VHS Hi-Fi
PAL NTSC

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

Caution
Television programs, films, video tapes and other materials may be copyrighted.
Unauthorized recording of such material may be contrary to the provisions of the copyright laws.

For the Customers in the United Kingdom

WARNING
THIS APPARATUS MUST BE EARTHED

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wires in the mains lead of the apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

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Overview of the VCR

This VCR features various convenient functions for playback, recording and editing. For example, quick and easy access is a "must" during playback and editing; therefore, this VCR incorporates the DUAL MODE SHUTTLE ring. You can easily advance and rewind the tape to locate a desired scene by simply turning the ring.

Precautions

Safety
- Operate the unit on 230V AC, 50/60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it will not be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installation
- Allow adequate air circulation to prevent internal heat build-up.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Do not install it in an inclined position.
- Do not place any heavy object on the unit.

Operation
- While the unit is not in use, turn the power off to conserve energy and to extend the life of the unit.
- Remove and store video cassettes after recording or playback.

Cleaning
Clean the cabinet, panel and controls with a dry soft cloth, or a soft cloth slightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine, which might damage the finish.

If you have any question about this unit, contact your Sony service facility.

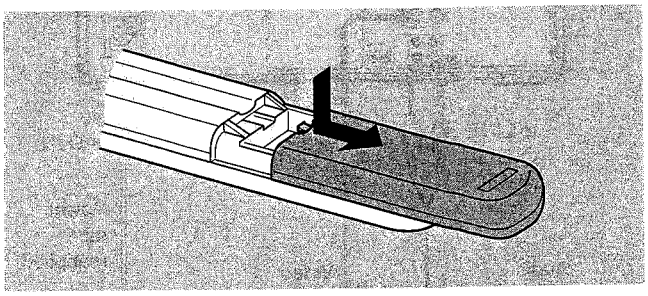
Preparing the Remote Commander

Before using the supplied Remote Commander, insert the batteries correctly into the Remote Commander.

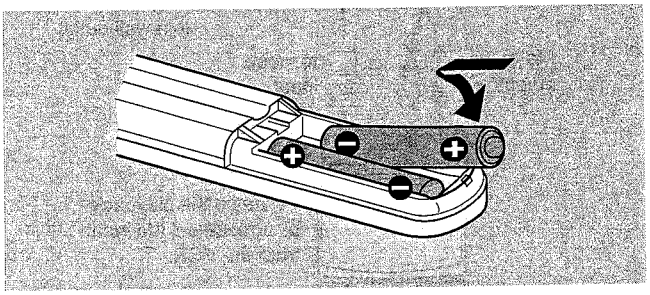
How to use the Remote Commander
When you operate the VCR using the Remote Commander, point it at the remote sensor on the VCR. For the location of the remote sensor, see "Labeling Parts and Controls" on page 19.

Inserting Batteries

1 Slide and remove the cover.



2 Insert two R6 (size AA) batteries with the polarity positioned correctly.



3 Close the cover.

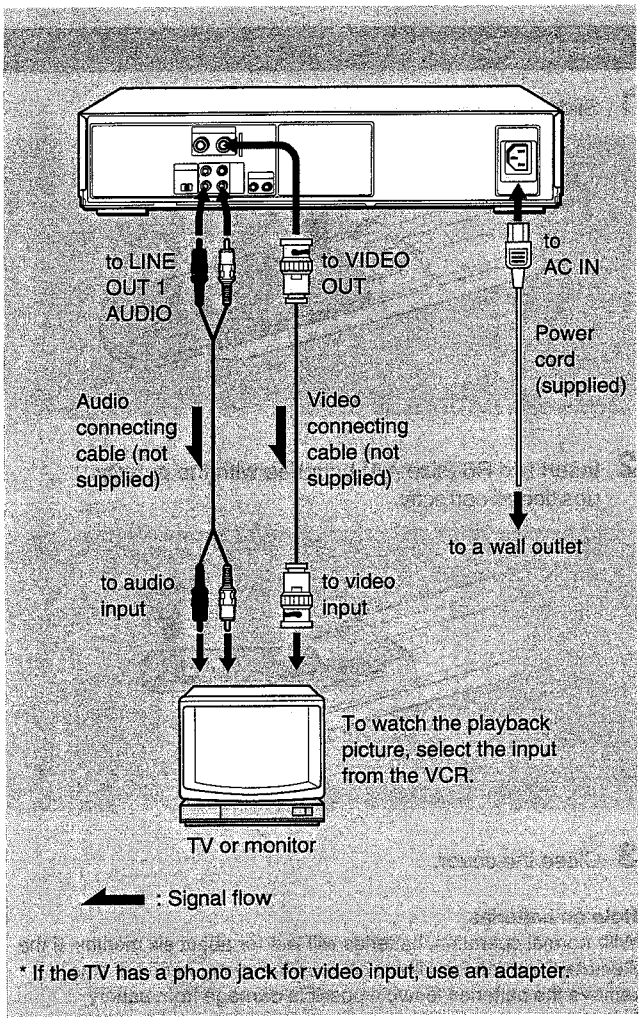
Note on batteries
With normal operation, batteries will last for about six months. If the Remote Commander will not be used for a long period of time, remove the batteries to avoid possible damage from battery leakage.

Connections

Turn off the power to all the equipment before making connections. Connect the AC power cord last.

Connecting the VCR to a TV or Monitor

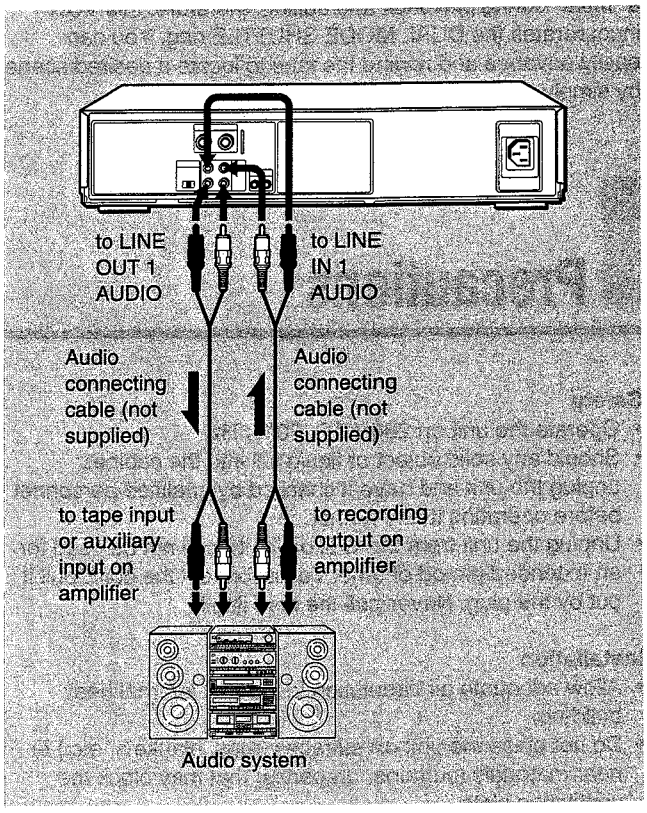
A TV or a color monitor with a video input connector is required.


to LINE OUT 1 AUDIO
to VIDEO OUT
to AC IN
Power cord (supplied)
Audio connecting cable (not supplied)
Video connecting cable (not supplied)
to a wall outlet
to audio input
to video input
To watch the playback picture, select the input from the VCR.
TV or monitor
: Signal flow
* If the TV has a phono jack for video input, use an adapter.

If the picture shakes

The picture on your TV may shake if you place the VCR too close to the TV. If this happens, move the VCR further away.

Connecting the VCR to an Audio System


to LINE OUT 1 AUDIO
to LINE IN 1 AUDIO
Audio connecting cable (not supplied)
Audio connecting cable (not supplied)
to tape input or auxiliary input on amplifier
to recording output on amplifier
Audio system

Notes

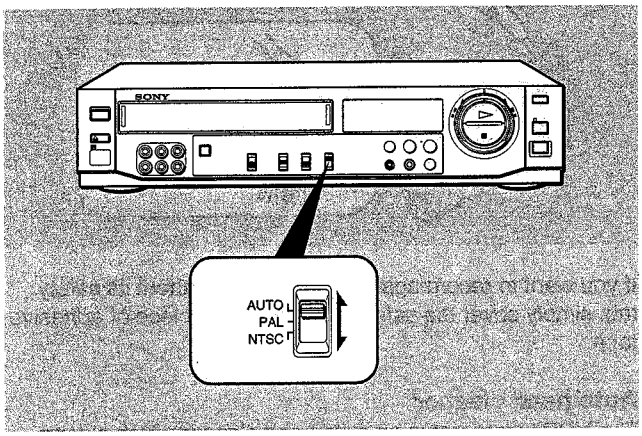
- If the VCR is installed near a tuner or a radio, noise may be heard during AM reception. In this case, move the VCR away from the tuner or the radio, adjust the AM antenna for minimum noise, or connect an external AM antenna to the tuner.
- Since a hi-fi recorded tape has a wide dynamic range, turn down the volume on the amplifier before playing back the tape to avoid damaging the speakers.
- Before connecting or disconnecting the power cord of the VCR, be sure to turn off the connected amplifier.

Setting the Color System

This VCR is designed to record and play back using the PAL, NTSC 3.58 and NTSC 4.43 color systems. First you need to set the TV system.
Since the color system is automatically detected with this VCR, make sure that the COLOR SYSTEM selector is set to AUTO.

Setting the color system

Since the color system is automatically detected with this VCR, make sure that the COLOR SYSTEM selector is set to AUTO. When the COLOR SYSTEM selector is set to AUTO, you can record TV programs based on the PAL, NTSC 3.58 and NTSC 4.43 through the LINE IN jacks.



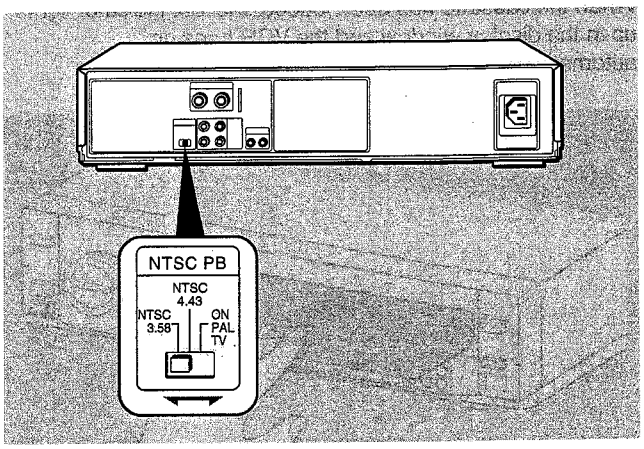
If the recording condition of the tape is so poor that the VCR cannot detect the correct color system, switch the COLOR SYSTEM selector to the desired color system in order to record correctly.

Note

Tapes recorded in EP mode (NTSC system) will not reproduce hi-fi sound when played back.

Before Playback of NTSC-Recorded Tapes

When playing back an NTSC-recorded tape, however, you need to set the NTSC PB switch to an appropriate position according to the TV used.



NTSC 3.58: When using an NTSC 3.58 TV
NTSC 4.43: When using an NTSC 4.43 TV
ON PAL TV: When using a PAL TV

Notes on playback of NTSC-recorded tapes on a PAL TV

Depending on the TV you are using, the following phenomena may occur separately or in combination:

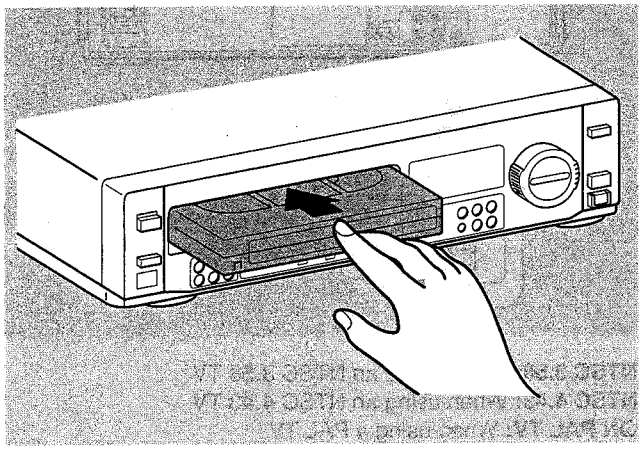
- The picture becomes black and white.
- The picture shakes.
- No picture appears on the screen.
- Black streaks appear horizontally on the screen.
- The color density increases or decreases.
- The picture shrinks vertically.

Handling Video Cassettes

Handle your video cassettes carefully.

Inserting a Video Cassette

Insert a cassette by gently pressing the center of the back of the cassette.
When the cassette has been loaded, the ⊡ indicator lights up in the display window and the VCR turns on automatically.

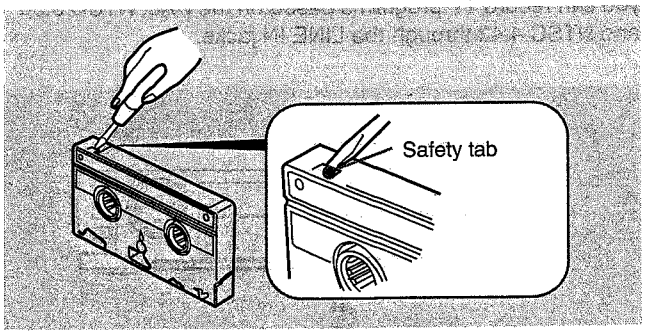


Ejecting a Video Cassette

Press ⏏ EJECT.
You can eject the cassette even when the power is off. When you press ⏏ EJECT, the VCR turns on automatically, ejects the cassette, and then turns off again.

Protecting your cassette from being erased

The cassette is provided with a safety tab. To avoid accidental erasure, remove the safety tab using a screwdriver or a similar tool as shown.



If you want to record again on a cassette without its safety tab, simply cover the safety tab hole with a piece of adhesive tape.

Auto head cleaner

The VCR incorporates an auto head cleaner which cleans the video heads whenever a cassette is loaded or unloaded. When the auto head cleaner is not sufficient even after a cassette has been loaded/unloaded several times, use the Sony V-25CL video head cleaning cassette.

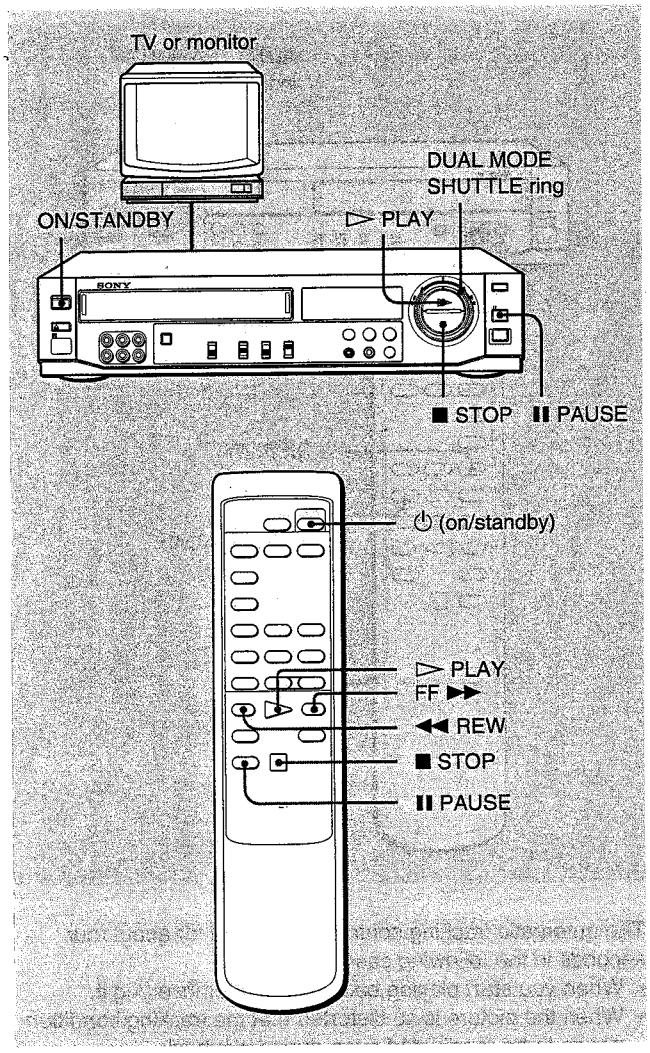
Playback

Continued ►

This section shows you how to play back a cassette.

Playing Back a Cassette

This VCR plays back tapes recorded in either SP, LP or EP mode.
Before playing back a cassette, be sure that all the connections are made correctly.



1 Turn on the TV.
If you have made the connection using the audio/video jacks, select the input for this VCR on the TV.

2 Insert a cassette.
The VCR turns on automatically.

3 Then press ▷ PLAY to start playback.
The ▷ indicator lights up in the display window.

To stop playback
Press ■ STOP.

To stop playback for a moment
Press II PAUSE.
Press II PAUSE again or ▷ PLAY to resume playback.

To fast-forward the tape
Press ■ STOP, then turn the DUAL MODE SHUTTLE ring on the VCR clockwise (▶▶) or press FF ▶▶ on the Remote Commander.

To rewind the tape
Press ■ STOP, then turn the DUAL MODE SHUTTLE ring on the VCR counterclockwise (◀◀) or press ◀◀ REW on the Remote Commander.

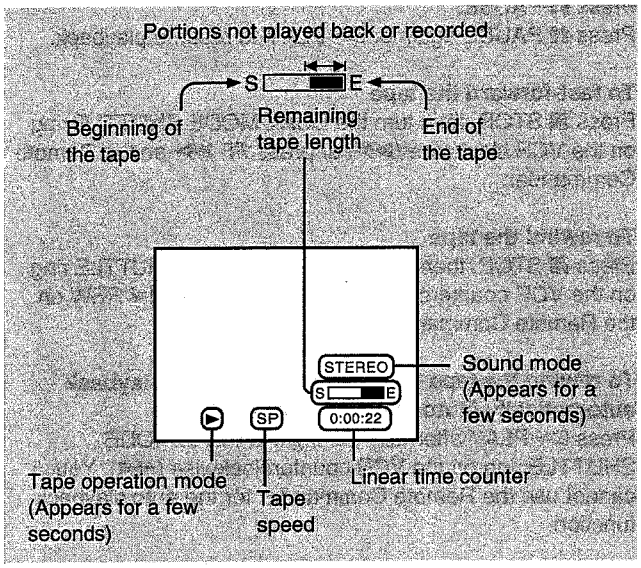
To rewind the tape to its beginning and to playback automatically (auto playback function)
Press ▷ PLAY after fully turning the DUAL MODE SHUTTLE ring on the VCR counterclockwise (◀◀). You cannot use the Remote Commander for the auto playback function.

When the tape reaches the end in playback mode
The tape automatically rewinds to the beginning (auto rewind), and the power remains on.

Note
If you play back a tape recorded in NTSC EP mode, you can only hear the normal audio sound. The Hi-Fi sound is not available.

On-Screen Display

The following information appears on the TV screen.



To delete or call up VCR information on the TV screen
Press DISPLAY on the Remote Commander.

Notes on the on-screen display

- The remaining tape length indicator does not appear when an NTSC-recorded tape is being played back.
- The remaining tape length indicator only shows the approximate amount of tape left.
- The remaining tape length indicator may not operate properly when a cassette with a short tape length such as T-20 or T-30, or non-standard tape is loaded.
- The on-screen display does not appear during still mode or slow motion playback, or high speed playback.

Indexing tape contents

The linear time counter on the TV screen indicates the approximate running time of the tape. By noting the counter readings, you can find certain scenes later by referring to the counter.
When a cassette is inserted, the counter reading becomes zero (0:00:00). The VCR keeps counting the length of the tape being played back unless the tape is ejected.

To reset the counter to zero (0:00:00)
Press COUNTER RESET on the Remote Commander.

Notes on the counter

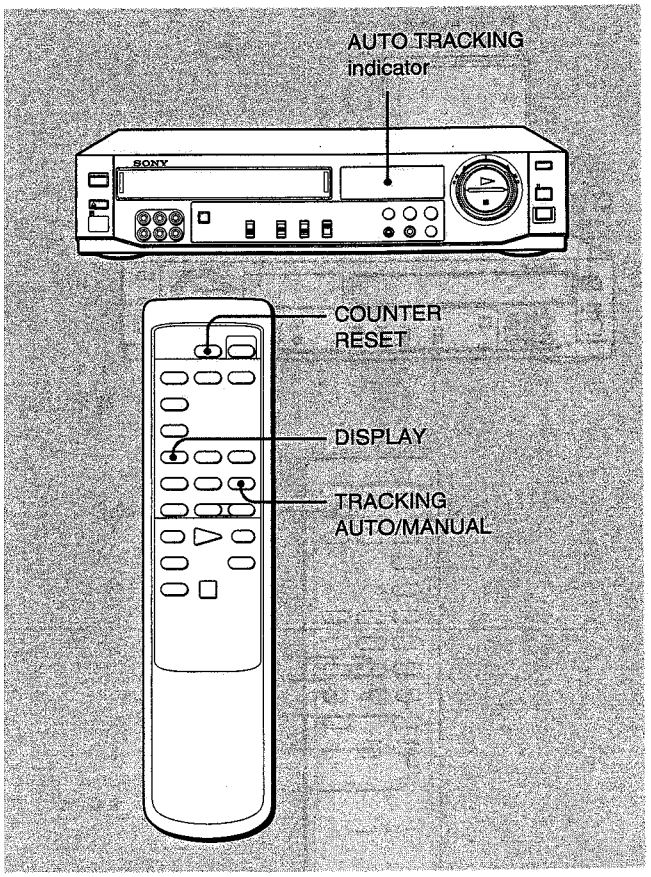
- The linear time counter does not work properly on the portions on which no recording has been made.
- The linear time counter does not appear for the tape recorded with the NTSC color system.

Adjusting the Picture

The tracking condition is automatically adjusted on this VCR.

Adjusting the tracking automatically

The AUTO TRACKING indicator blinks in the display window while the VCR is searching for the best tracking condition, and lights when the optimum playback picture is obtained.

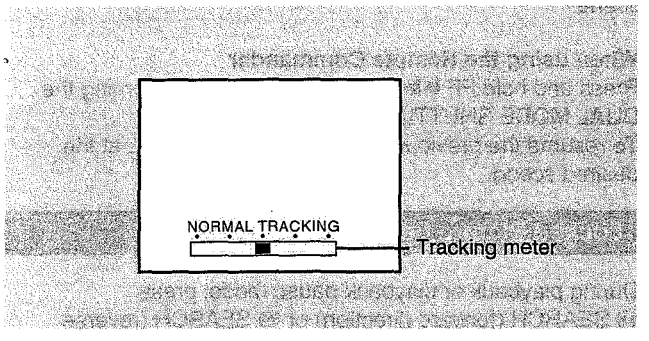


The automatic tracking control is activated for about four seconds in the following cases:

- When you start playing back a tape after inserting it.
- When the picture is so distorted that the tracking condition needs to be readjusted even during playback.
- When you press TRACKING AUTO/MANUAL on the Remote Commander after the picture is adjusted manually.
- When the recording mode on the playback cassette is switched between SP, LP or EP and back again.

Adjusting the tracking manually

If streaks or distortion should appear in the picture even after auto tracking has been operated, press TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ on the Remote Commander to obtain the best possible picture.
The AUTO TRACKING indicator goes off in the display window, and if the on-screen function is on, you can see the tracking meter on the TV screen.



To reactivate the auto tracking

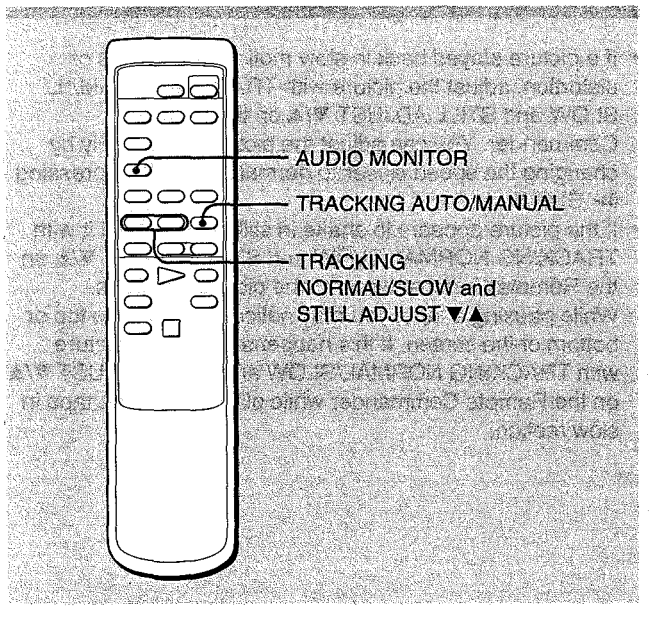
Press TRACKING AUTO/MANUAL on the Remote Commander so that the AUTO TRACKING indicator lights up in the display window.

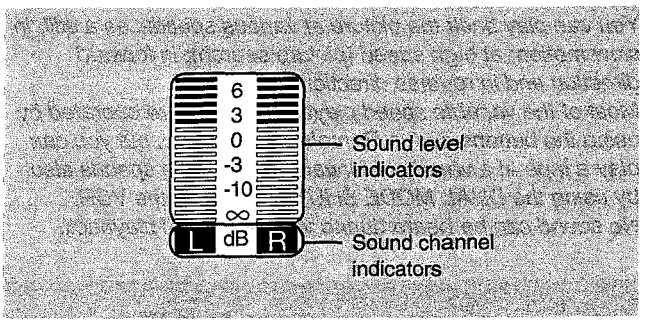
Notes on auto tracking

- Auto tracking adjustment does not work for tapes recorded in LP mode.
- During auto tracking adjustment, streaks or distortion may appear.

Listening to Stereo or Bilingual Tapes

This VCR allows you to listen to a stereo or bilingual program recorded on the tape.





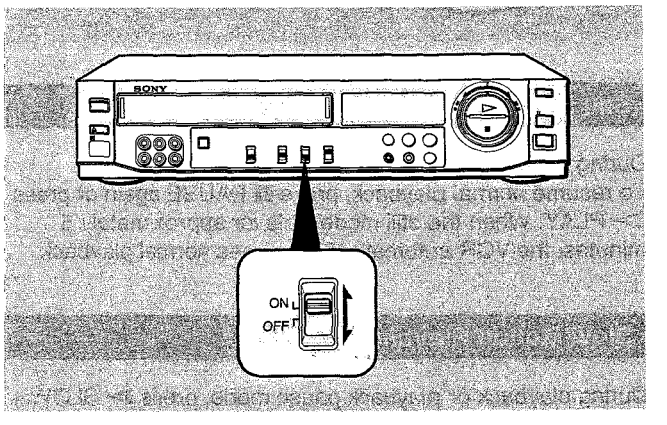
Press AUDIO MONITOR on the Remote Commander to select the kind of sound to hear.
Each time you press the button, stereo (left and right channel sound), left-channel sound, right-channel sound or the sound on the normal audio track is selected cyclically. The selected sound is shown in the display window.

Indicators		Sound to hear	
in the display window	**on the screen**	**Stereo tape**	**Bilingual tape**
L R	STEREO	Stereo	Left and right channels
L	LCH	Left channel	Left channel
R	RCH	Right channel	Right channel
None	None	Monaural on the normal audio track	Sound on the normal audio track

Note

The AUDIO MONITOR button has no effect if used with a monaural tape.

Listening to the Sounds on the Hi-Fi Track and Normal Track Mixed



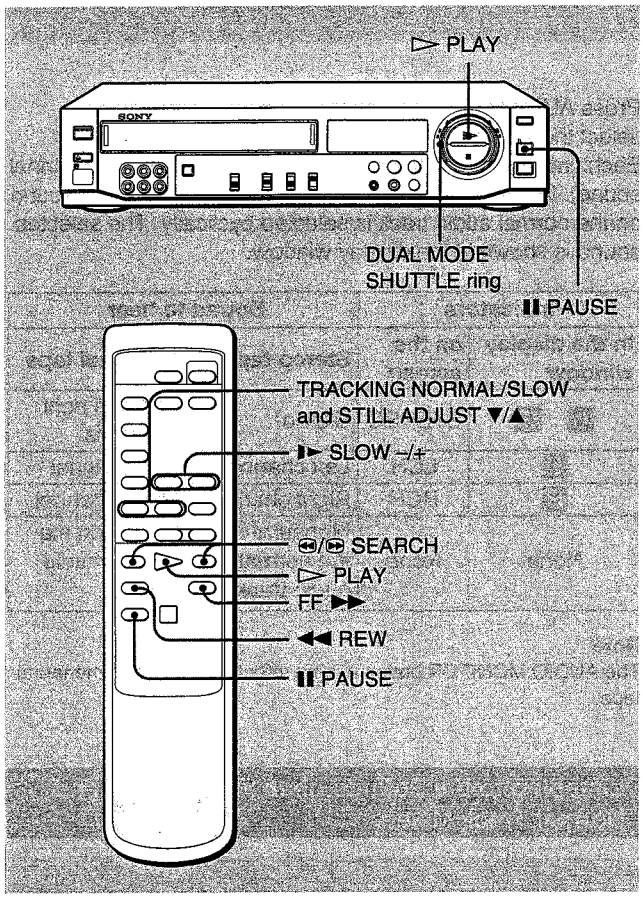
Set AUDIO MIX on the VCR to ON.

Note

When you set AUDIO MIX to ON, the playback sound may become muffled and the AUDIO MONITOR button does not function.
Reset to OFF after listening to the sound in AUDIO MIX mode.

Variable Speed Playback

You can play back the picture at various speeds: as a still; in slow motion; at high speed (picture search); in forward direction and in reverse direction.
Most of the variable speed playback modes are operated by using the buttons on the Remote Commander, but you can play a tape at a variety of forward and reverse speeds also by using the DUAL MODE SHUTTLE ring on the VCR.
No sound can be heard during variable speed playback.



Still Mode (Pause Mode)

During playback, press ❚❚ PAUSE.
To resume normal playback, press ❚❚ PAUSE again or press ▷ PLAY. When the still mode lasts for approximately 5 minutes, the VCR automatically resumes normal playback.

Slow Motion Playback

During playback or playback pause mode, press ❚► SLOW + or – on the Remote Commander. You can also change the slow motion speed with ❚► SLOW + or –.
Press ❚► SLOW + to increase the speed, or ❚► SLOW – to decrease the playback speed.
If you leave your VCR in slow motion playback for more than 5 minutes, normal playback resumes.

Picture Search

During playback or playback pause mode, fast-forward or rewinding, turn the DUAL MODE SHUTTLE ring clockwise to ▶▶ (forward direction) or turn it counterclockwise to ◀◀ (reverse direction). A high-speed picture without sound appears on the screen until you release the ring.
To resume the previous mode, release the ring at the desired scene.

When using the Remote Commander
Press and hold FF ▶▶ or ◀◀ REW instead of turning the DUAL MODE SHUTTLE ring on the VCR.
To resume the previous mode, release the button at the desired scene.

Locked Picture Search

During playback or playback pause mode, press ⏩ SEARCH (forward direction) or ⏪ SEARCH (reverse direction) on the Remote Commander. A high-speed picture appears on the screen. You do not have to hold the button down.
To resume normal playback, press ▷ PLAY.

Notes on variable speed playback
- Streaks or distortion cannot be completely eliminated.
- Some snow or distortion are unavoidable when playing back a cassette in reverse or reverse slow motion playback.
- When the tape transporting direction is changed during variable speed playback, the playback picture and sound is distorted for a moment.
- Distortion may occur and the color may not be reproduced normally during variable speed playback when you play tapes recorded in LP mode, depending on the TV connected to the VCR.

Picture Adjustment During Variable Speed Playback

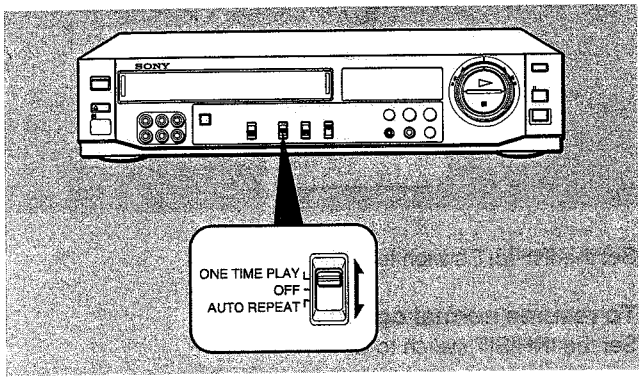
- If a picture played back in slow motion has streaks or distortion, adjust the picture with TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ on the Remote Commander. You can adjust the picture more easily by changing the speed closer to normal playback by pressing ❚► SLOW +.
- If the picture appears to shake in still mode, adjust it with TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ on the Remote Commander until the picture stabilizes. While pausing a tape, you may notice a band at the top or bottom of the screen. If this happens, adjust the picture with TRACKING NORMAL/SLOW and STILL ADJUST ▼/▲ on the Remote Commander while playing back the tape in slow motion.

Repeat Playback and One Time Playback

You have the following two ways of playing a tape other than normal playback:

- *Playing back once from the beginning of the tape until the end of the recorded portion, and*
- *Playing back repeatedly between the beginning of the tape and the end of the recorded portion.*

One Time Playback

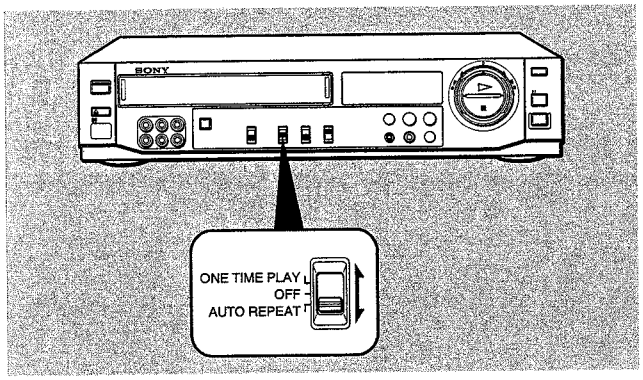


1 Set the ONE TIME PLAY/OFF/AUTO REPEAT switch to ONE TIME PLAY.

2 Insert a rewound tape.

3 Press ▷ PLAY.
After playing only the recorded portion, the VCR rewinds the tape and stops.

Repeat Playback



1 Set the ONE TIME PLAY/OFF/AUTO REPEAT switch to AUTO REPEAT.

2 Insert a rewound tape.

3 Press ▷ PLAY.
After playing only the recorded portion, the VCR rewinds the tape to the beginning of the tape and plays the same recorded portion repeatedly.

To stop playback

Press ■ STOP.

Conditions of the tape for one time playback and repeat playback

You must use a tape which fills the following conditions to use these functions:

- The blank portion of the beginning of a tape must be less than 25 seconds.
- There must be a blank for more than 10 seconds just after the end of the recorded portion. If there is not, the VCR might continue to play the next recorded portion or play back until the end of a tape.

To make a blank portion on a recorded tape

1 Press INPUT SELECT to display "LINE" in the display window.
2 Record the tape with no incoming signals from LINE IN.

To cancel one time playback and repeat playback

Set the ONE TIME PLAY/OFF/AUTO REPEAT switch to OFF.

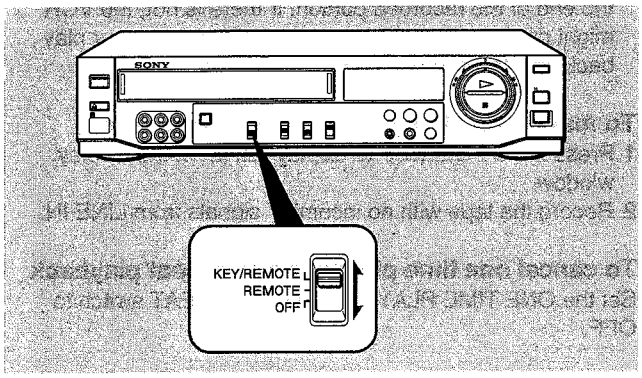
Note

A tape that contains only sound and no pictures will not be played if this switch is not set to OFF.

Locking Buttons on the VCR and Remote Commander

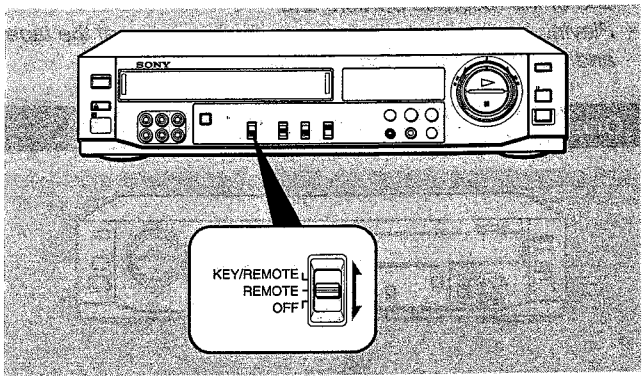
You can lock the buttons on the VCR and/or Remote Commander. This is convenient for preventing accidental operations when you control this VCR with a wired control unit (not supplied). It is also convenient when you use this VCR in a public place; this protects the VCR from mishaps caused by other people touching it.

Locking the Buttons on Both the VCR and Remote Commander



Set the INHIBIT switch to KEY/REMOTE.

Locking the Buttons Only on the Remote Commander



Set the INHIBIT switch to REMOTE.

To resume normal operation

Set the INHIBIT switch to OFF.

Index Function

You can easily search for a desired program on a tape by detecting index signals.

How Index Signals are Marked

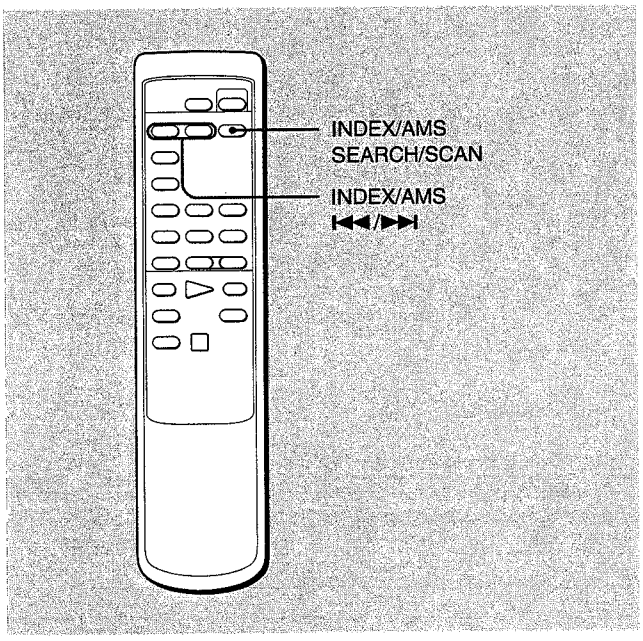
An index signal is automatically marked on the tape when a recording starts.

Notes

- The index signal is marked when you start recording from stop mode. If the VCR is in recording pause mode and then recording is resumed, no index signal will be marked.
- Index signals cannot be marked on a tape whose safety tab is removed.

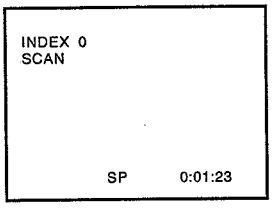
Watching the Beginning of Each Recording Consecutively — Index Scan

You can watch the beginning of each recording consecutively by detecting index signals one by one.



1 Insert a cassette with index signals marked on it.

2 Press INDEX/AMS SEARCH/SCAN until "INDEX 0" and "SCAN" appear in the display window and on the TV screen.

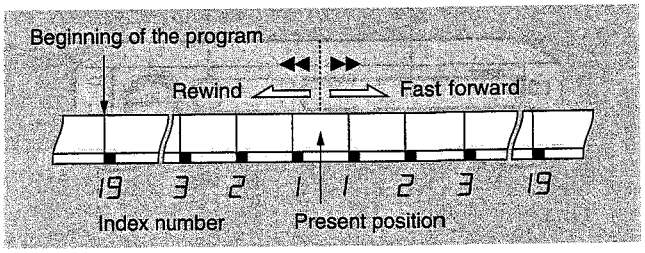


3 Press INDEX/AMS ▶▶I (or I◀◀) once.
The VCR advances to the next (or previous) index signal. Then the VCR plays back the tape for approximately 10 seconds and then moves to the next index signal in the selected direction.

4 Press ▷ PLAY when you locate the desired index signal.
Normal playback resumes.

Locating a Desired Program — Index Search

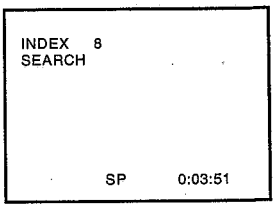
You can locate a desired program and play it back automatically by specifying its index position.
Up to the 99th index signal from the present position on the tape can be located.



1 Insert a cassette with index signals marked on it.

2 Press INDEX/AMS SEARCH/SCAN until "INDEX" and "SEARCH" appear on the TV screen. "INDEX" also appears in the display window.

3 Press INDEX/AMS I◀◀ to locate a previous program or press INDEX/AMS ▶▶I to locate a program ahead repeatedly until the number for the desired program appears after "INDEX" in the display window and on the TV screen.
The VCR starts searching when you press the button first and then each time you press the button, the number increases.

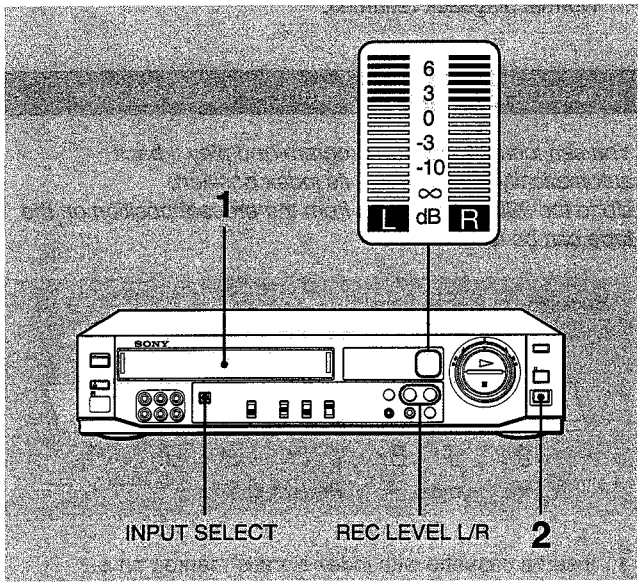


When the specified program is reached, playback starts.

Audio Recording

Hi-Fi Recording

In conventional recording, audio signals are recorded on the audio track and video signals on the video track.
In hi-fi recording, audio signals are recorded in the same manner as video signals, using two rotary hi-fi audio heads. Thus, high-quality sound recording is possible.



Before you begin

- Your audio system must be correctly connected to the VCR. (See "Connections" on page 4.)
- Set INPUT SELECT to LINE 1 or LINE 2 according to which your audio system is connected.
- Set the tape speed to SP or LP.
- Adjust the recording level with the REC LEVEL L/R controls. Play a recording source and manually adjust the recording level while observing the sound level indicators.
  When recording from a cassette deck:
  Adjust so that the L and R sound level indicators sometimes reach their peaks.
  When recording from a CD player or PCM digital audio processor:
  Adjust so that the L and R sound level indicators reach their peaks only at the highest signal level.

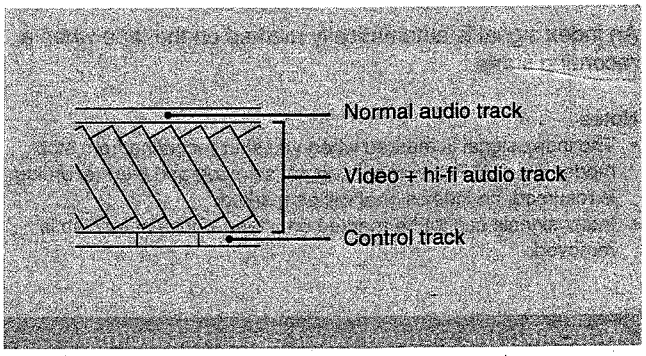
Note
The elements which light up may differ slightly between the L and R sound level indicators.

1 Insert a cassette.

2 Press ● REC on the VCR or the two ● REC buttons on the Remote Commander simultaneously.
Audio recording starts.

Hi-fi recording pattern on tape

The VCR automatically performs hi-fi recording and normal audio recording at the same time, so that these tapes also can be played back on a VCR without a hi-fi system.

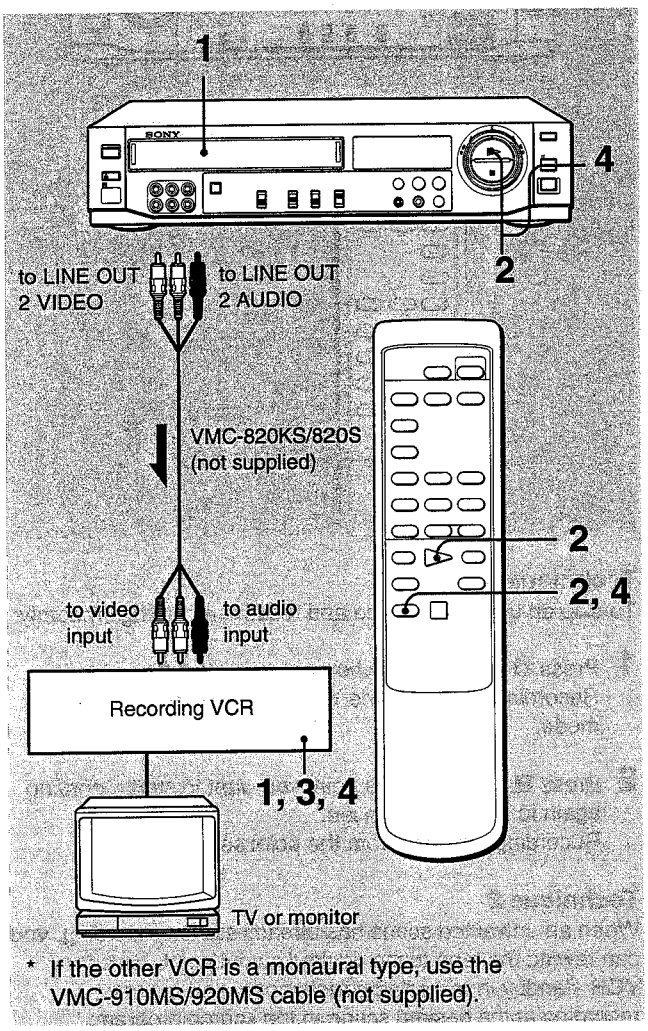


Dubbing with Another VCR

Continued ►

You can dub tapes by connecting this VCR to another VCR. Connect them using either the LINE IN/OUT 1 jacks on the rear panel or the LINE IN/OUT 2 jacks on the front panel of this VCR. (In the following connections, the LINE IN/OUT 2 jacks on the front panel are used.)
For hi-fi recording and playback, connect a hi-fi VCR and use hi-fi tapes.

Dubbing Tapes onto Another VCR



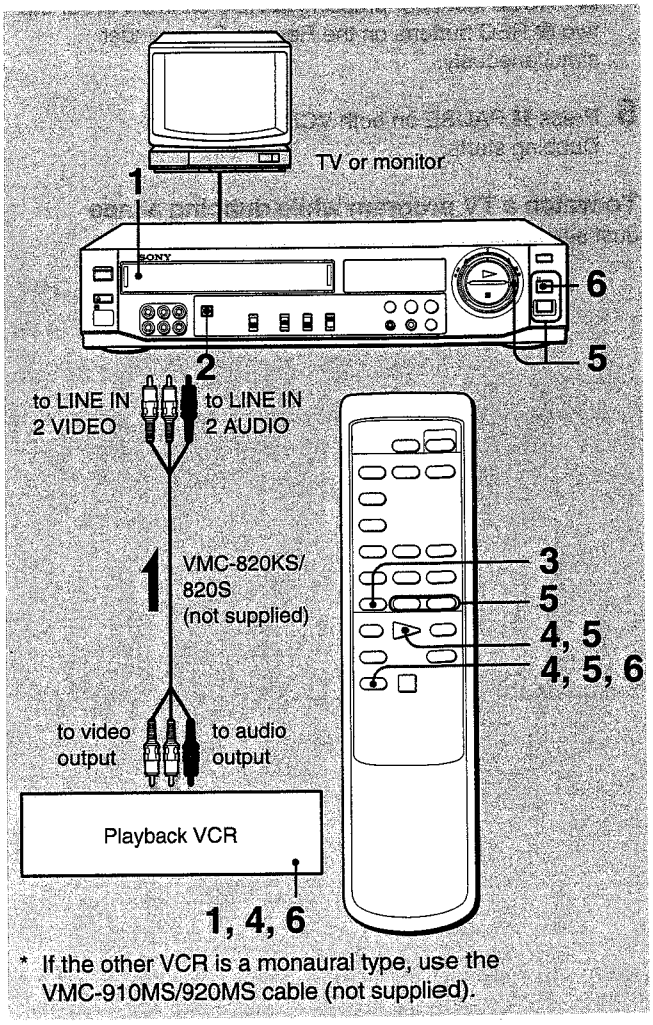
1 Insert a source tape into this VCR, and a blank or erasable tape with a safety tab into the recording VCR.

2 Search for the playback start point on this VCR and put this VCR into playback pause mode.

3 Search for the recording start point on the recording VCR and put the recording VCR into recording pause mode.

4 Press ❚❚ PAUSE on both VCRs.
Dubbing starts.

Dubbing Tapes from Another VCR



1 Insert a source tape into the playback VCR, and a blank or erasable tape with a safety tab into this VCR.

2 Press INPUT SELECT to light the LINE 2 indicator in the display window of this VCR. (If you use the LINE IN/OUT 1 jacks on the rear panel, light the LINE 1 indicator in the display window.)

3 Press TAPE SPEED on the Remote Commander to select the tape speed (SP, LP or EP).
The SP, LP or EP indicator (whichever you have selected) lights up in the display window.

4 Search for the playback start point on the playback VCR and put the playback VCR into playback pause mode.

5 Search for the recording start point on this VCR and put this VCR into recording pause mode by pressing ❚❚ PAUSE just after pressing ● REC on this VCR or the two ● REC buttons on the Remote Commander simultaneously.

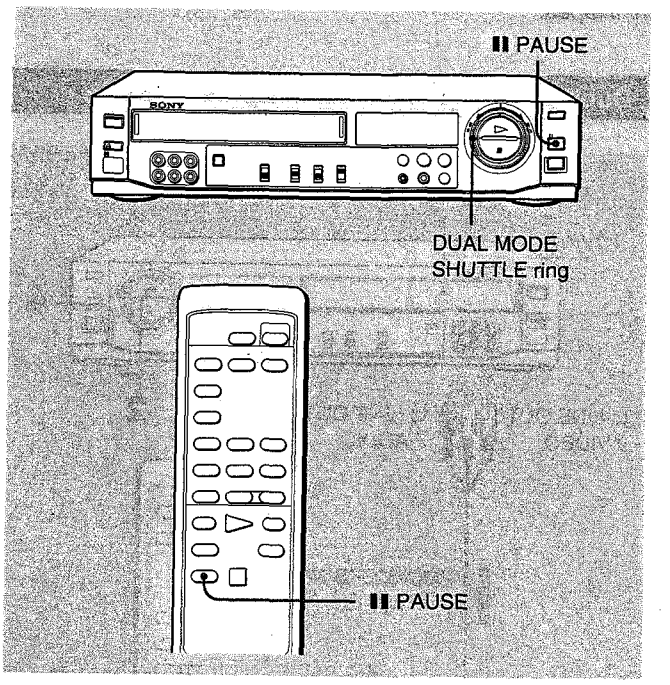
6 Press ❚❚ PAUSE on both VCRs.
Dubbing starts.

To watch a TV program while dubbing a tape

Just select the desired channel on the TV.

Pausing Techniques

You can skip an unwanted scene and resume recording smoothly while dubbing a tape on this VCR by using the pause function.



Technique 1

To skip an unwanted scene and resume recording smoothly:

1 Press ❚❚ PAUSE just when an unwanted scene begins.
Recording stops and the VCR enters recording pause mode.

2 Press ❚❚ PAUSE at the point you want to start recording again to release the pause.
Recording resumes from the point set in step 1.

Technique 2

When an unwanted scene has already started recording, you can rewind the tape to the desired cutout point, have the VCR standby in recording pause mode, and resume recording at the desired scene in the source program.

1 Press ❚❚ PAUSE to put the VCR into recording pause mode.

2 Turn the DUAL MODE SHUTTLE ring counterclockwise to search for the point from which you want to continue recording.

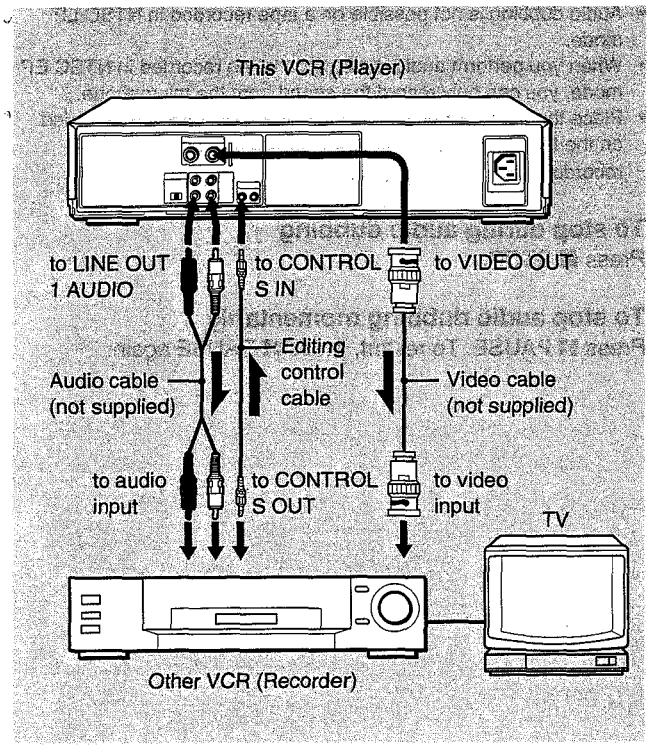
3 Release the DUAL MODE SHUTTLE ring at the desired point.
After an instant in still mode, the VCR automatically enters recording pause mode.

4 Press ❚❚ PAUSE again.
Recording resumes.

Synchronized Editing

Using the CONTROL S IN Jack

If your other VCR has a CONTROL S jack, connect the VCRs via the CONTROL S jacks. This additional connection enables you to pause and resume playback or recording on both VCRs from one VCR.

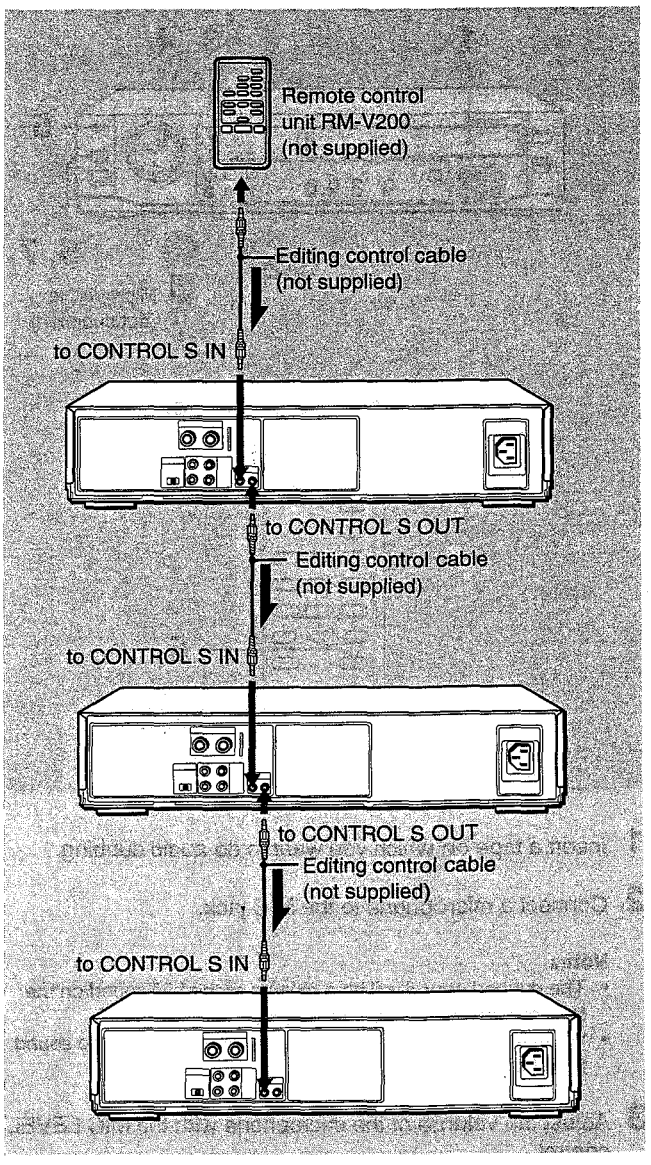


Note

You must use other VCRs that are equipped with a SYNCHRO EDIT button, or synchronized editing cannot be performed. For details, see the Operating Instructions of the other VCRs.

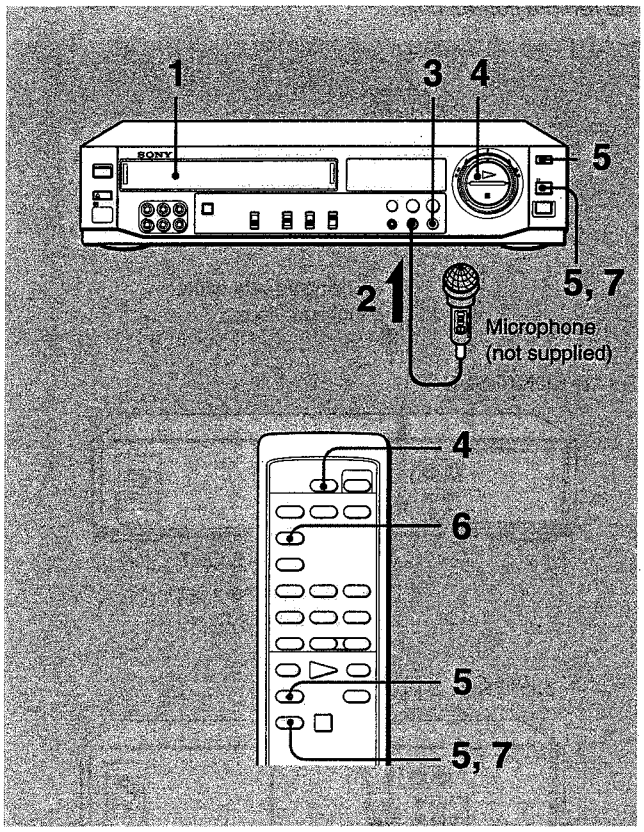
Using the CONTROL S IN and OUT Jacks

When using a remote control unit, you can remotely control two or more VCRs by connecting via the CONTROL S IN and OUT jacks. For details, see the Operating Instructions of the remote control unit.


Remote control unit RM-V200 (not supplied)
Editing control cable (not supplied)
to CONTROL S IN
to CONTROL S OUT
Editing control cable (not supplied)
to CONTROL S IN
to CONTROL S OUT
Editing control cable (not supplied)
to CONTROL S IN

Audio Dubbing

You can record the sound from a microphone on a recorded tape while watching the playback picture. During audio dubbing, the sound will be recorded on the normal audio track.



1 Insert a tape on which you want to do audio dubbing.

2 Connect a microphone to the MIC jack.

Notes
- The dubbed sound will be a mixture of the hi-fi sound on the tape and the sound from the microphone.
- While the unit is in pause mode, you can only hear the sound from the microphone.

3 Adjust the volume of the microphone with the MIC LEVEL control.

4 Advance the tape and locate the position on the tape where you want to end audio dubbing, and press COUNTER RESET to reset the counter to zero.

5 Rewind the tape and locate the position on the tape where you want to start audio dubbing. Press ❚❚ PAUSE at the desired point.

6 Press AUDIO DUB.
The AUDIO DUB indicator lights up.

7 Press ❚❚ PAUSE and start audio dubbing by speaking into the microphone.

When the counter reaches zero, the VCR automatically stops.

Note
- Audio dubbing is not possible on a tape recorded in NTSC LP mode.
- When you perform audio dubbing on tapes recorded in NTSC EP mode, you can only record the sound from the microphone.
- Place the audio dubbing end point where pictures are recorded on the tape. If you do audio dubbing where no pictures are recorded, audio noise may occur.

To stop during audio dubbing
Press ■ STOP.

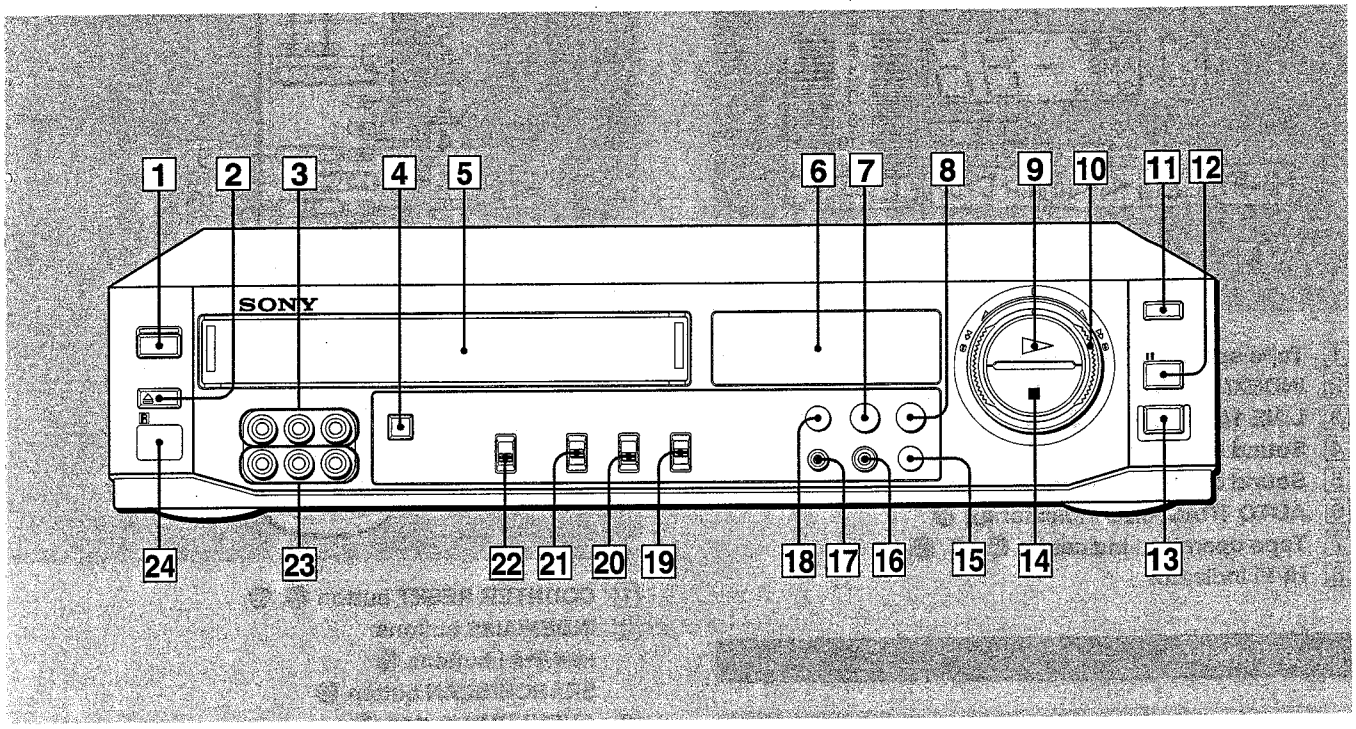
To stop audio dubbing momentarily
Press ❚❚ PAUSE. To restart, press ❚❚ PAUSE again.

Labeling Parts and Controls

Continued ►

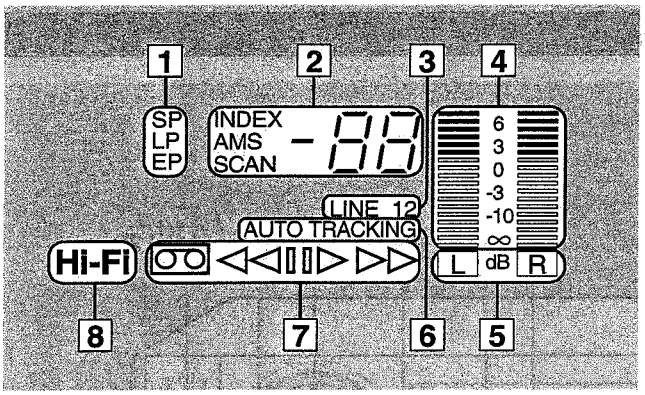
Refer to pages in circles for details.

Front Panel



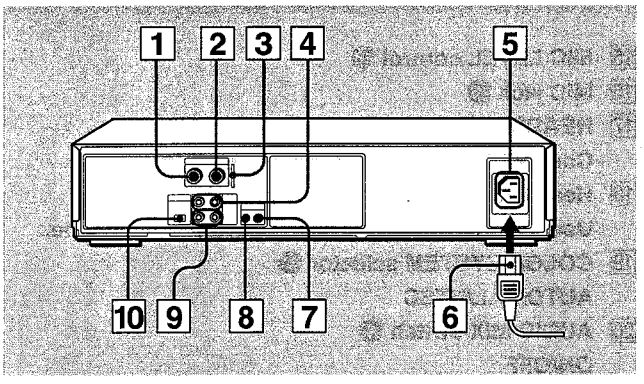
1 ON/STANDBY switch and indicator ❼
2 ⏏ EJECT button ❻
3 LINE IN 2 VIDEO/L-AUDIO-R jacks ⓯, ⓲
4 INPUT SELECT button ⓫, ⓮, ⓯, ⓲
5 Cassette compartment ❻
6 Display window ⓴
7 L REC LEVEL control ⓮
8 R REC LEVEL control ⓮
9 ▷ PLAY button ❼, ❿, ⓫, ⓭, ⓮, ⓯, ⓲
10 DUAL MODE SHUTTLE ring ❸, ❼, ❿, ⓰, ⓲
11 AUDIO DUB button and indicator ⓲
12 ❚❚ PAUSE button ❼, ❿, ⓯, ⓰, ⓲
13 ● REC button and indicator ⓮, ⓰
14 ■ STOP button ❼, ⓫, ⓲
15 MIC LEVEL control ⓲
16 MIC jack ⓲
17 HEADPHONES jack
Connect headphones to the VCR via this jack.
18 Headphone LEVEL control
Use this control to adjust the headphone volume.
19 COLOR SYSTEM selector ❺
AUTO/PAL/NTSC
20 AUDIO MIX switch ❾
ON/OFF
21 ONE TIME PLAY/OFF/AUTO REPEAT switch ⓫
22 INHIBIT switch ⓬
KEY/REMOTE/REMOTE/OFF
23 LINE OUT 2 VIDEO/L-AUDIO-R jacks ⓯
24 Remote sensor ❸

Display Window



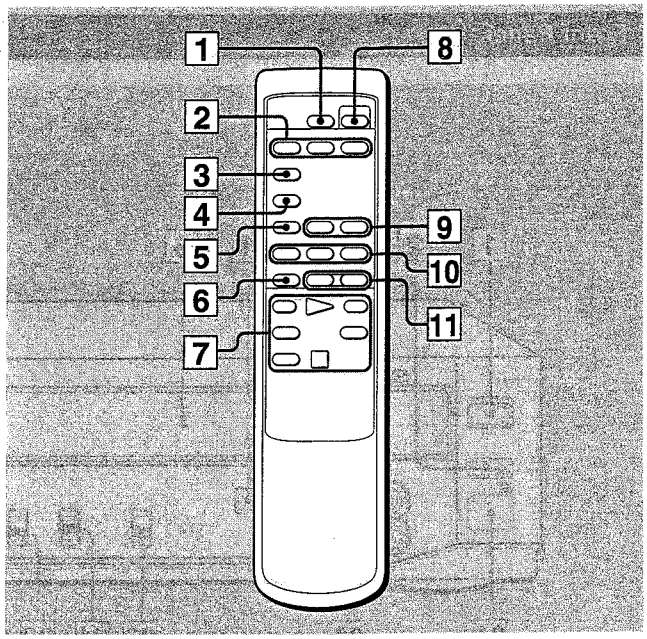
1 Tape speed indicator ⓮, ⓯
2 INDEX/AMS indicator ⓭
3 LINE 1/2 indicators ⓫, ⓮, ⓯, ⓲
4 Sound level indicators ❾, ⓮
5 Sound channel indicators ❾, ⓮
6 AUTO TRACKING indicator ❽, ❾
7 Tape operation indicators ❻, ❼, ⓮
8 Hi-Fi indicator

Rear Panel



1 VIDEO IN jack
2 VIDEO OUT jack ❹, ⓱
3 Hook hole (for chain)
Use a chain (not supplied) to make sure that this VCR is not moved from its place.
4 LINE IN 1 (R-AUDIO-L) jacks ❹
5 AC IN (inlet) connector ❹
6 Power cord ❹
7 CONTROL S OUT jack ⓱
8 CONTROL S IN jack ⓱
9 LINE OUT 1 (R-AUDIO-L) jacks ❹, ⓱
10 NTSC PB switch (NTSC 3.58/NTSC 4.43/ON PAL TV) ❺

Remote Commander



1 COUNTER RESET button ❽, ⓲
2 INDEX/AMS buttons
⏮/⏭ buttons ⓭
SEARCH/SCAN button ⓭
3 AUDIO DUB button ⓲
4 AUDIO MONITOR button ❾
5 DISPLAY button ❽
6 TAPE SPEED button ⓮, ⓯
7 Tape transport buttons
⏪/⏩ SEARCH buttons ⓾, ⓲
◀◀ REW button ❼, ⓾
▷ PLAY button ❼, ⓾, ⓫, ⓭, ⓮, ⓯, ⓲
■ STOP button ❼, ⓫, ⓲
FF ▶▶ button ❼, ⓾
❚❚ PAUSE button ❼, ⓾, ⓯, ⓰, ⓲
8 ⏻ (on/standby) switch ❼
9 ▮▶ SLOW –/+ buttons ⓾
10 TRACKING buttons
AUTO/MANUAL button ❽, ❾
NORMAL/SLOW STILL ADJUST ▼/▲ buttons ❾, ⓾
11 ● REC buttons ⓮, ⓰

Specifications

Format	VHS standard
Video recording system	Rotary 2-head helical scanning system
Audio recording system	Hi-Fi
Video signal	PAL/NTSC
Tape speed	PAL SP: 23.39 mm/sec. LP: 11.70 mm/sec. NTSC SP: 33.35 mm/sec. LP: 16.67 mm/sec. (Playback only) EP: 11.12 mm/sec.
Maximum recording time	PAL SP: 180 minutes with E-180 LP: 360 minutes with E-180 NTSC SP: 120 minutes with T-120 EP: 360 minutes with T-120
Fast-forward and rewind time	Approx. 3 min. (with E-120)
LINE IN	VIDEO IN (BNC jack/rear) (1) LINE IN 2 VIDEO (phono jack/front) (1) Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative LINE IN 1/2 AUDIO (phono jacks) (4) Input level: 327 mVrms Input impedance: more than 47 kilohms
LINE OUT	VIDEO OUT (BNC jack/rear) (1) LINE OUT 2 VIDEO (phono jack/front) (1) Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative LINE OUT 1/2 AUDIO (phono jacks) (4) Standard output: 327 mVrms Output impedance: less than 10 kilohms
CONTROL S IN	Minijack (1)
CONTROL S OUT	Minijack (1)
Microphone input	MIC (standard jack) (1) More than 3 kilohms, –53 dBs
Headphone input	Stereo minijack (1) Impedance: more than 8 ohms Output: less than 80 mW
Power requirements	230 V AC, 50/60 Hz
Power consumption	19 W
Dimensions	Approx. 430 × 91 × 358 mm (w/h/d)
Mass	Approx. 5.3 kg

Remote Commander RMT-V139

Remote control system	Infrared control
Power requirements	3 V DC, two R6 (size AA) batteries
Dimensions	Approx. 44 × 18 × 185 mm (w/h/d)
Mass	Approx. 59 g (not including batteries)

Accessories supplied

Remote Commander with two R6 (size AA) batteries ..... (1)
AC power cord ..... (1)

Design and specifications are subject to change without notice.

Troubleshooting

If any difficulty should arise during operation, first check the power cord connection, then go through the following list.

Should the difficulty continue, unplug the VCR, and contact your Sony dealer or local authorized Sony service facility.

	Symptom	Possible cause and remedies
Power	The power does not come on even if you press ON/STANDBY.	• The power cord is disconnected.
	The power comes on, but the VCR does not operate.	• The safety device in the VCR has been activated. Disconnect the power cord from the wall outlet and leave the VCR turned off.
Recording and playback	No picture on the TV screen.	• The TV is not set to the program position for this VCR, or the input for this VCR is not selected on the TV.
	Recording cannot be made.	• No cassette has been inserted. • The tape is at its end. • The cassette has no safety tab. Use a cassette with a safety tab.
	The playback picture is not clear.	• Adjust the tracking manually. (See page 9.) • The video heads are dirty. Clean the heads using the Sony V-25CL video head cleaning cassette. For details on cleaning, refer to the instructions provided with the cleaning cassette. If the cleaning cassette is not available in your area, have the heads cleaned at the nearest Sony facility. • If you used a commercially available wet-type cleaning cassette, it may have damaged the video heads. • The video heads are worn out.
	The picture rolls vertically during picture search.	• Adjust the vertical hold control on the TV or color monitor.
	The sound drops out.	• The tape is defective. Use a new video cassette tape.
	The desired sound cannot be heard when a stereo or bilingual tape is played back.	• The correct sound mode is not selected. Press AUDIO MONITOR to select the desired sound mode.
Others	A cassette cannot be inserted.	• Another cassette has been inserted.
	The Remote Commander cannot be operated.	• The batteries are discharged.
	The linear time counter does not work.	• No video signal is recorded on the tape.
	A mechanical noise is heard in stop mode.	• When a cassette is inserted and the VCR is left in stop mode with the power turned on for about 6 minutes, the tape protection mechanism will be activated automatically and a mechanical noise is heard.